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(54) Title: FORMING IRON NITROSYL HEMOGLOBIN

(57) Abstract: Contrary to current opinion that nitrite in general oxidizes hemoglobin with elimination of active nitric oxide, de-oxygenated hemoglobin reacts with low concentration inorganic nitrite to produce very stable iron nitrosyl hemoglobin which on delivery into the body is converted to a hemoglobin capable of nitric oxide delivery and provides vasodilator and antiplatelet activity. This provides basis for ameliorated risk blood product transfusions.